

Press release

Chemnitz residents benefit from the addition of new shell boilers to their district heating system

Viessmann Industriesysteme tasked with the complete upgrade of the Altchemnitz heating plant

Power supply utility "eins energie in sachsen" is responsible for the Altchemnitz heating plant, located in the south of Chemnitz. After 40 years of operation, the plant was in need of modernisation from the ground up. Viessmann Industrial Boiler Solutions GmbH, a company belonging to Viessmann's Industrial Systems Division, was commissioned to carry out a complete upgrade.

Viessmann has now set up a completely new heating system in a pre-existing building. This system is based on custom-built shell boilers. Three structurally identical models each with 33.3 MW_{th} help to supply around 40 percent of households in the region with DHW and heating water. Viessmann supplied not only the boilers but also the burners, chimneys, flue system, electrical wiring, pipework and insulation.

The entire project, from system engineering and installation right through to commissioning, was handled by Viessmann Industrial Boiler Solutions. Boilers on this scale are manufactured at Viessmann subsidiary HKB in the Netherlands. The boilers were designed specifically to be transported by road.

Moving the boilers, each weighing 70 tonnes, into the narrow boiler house proved to be a particular challenge. Cranes and handling equipment were specially installed to transfer the boilers to their final positions.

Commissioned at the end of 2018, the three double flame tube boilers now feed up to 100,000 kW into the district heating

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network, as required. Emission levels are below statutory specifications too.

With two power plants, "eins" operates one of the largest district heating networks in Germany, covering a distance of approx. 300 kilometres. Alchemnitz is used as a peak demand heating plant only as required, in especially cold or prolonged winter conditions or during maintenance work at the main plant. Thanks to their modular design, the three boilers can be employed in a flexible manner.

For the operators, control and monitoring-free operation was definitely an important criterion when it came to awarding the contract to Viessmann. The plant is operated from a control centre. For Silvia Trümper, Head of Heating Energy and Power Generation at "eins", the replacement of the old hot water boilers was a positive achievement: "I'm pleased that a great system has been set up and, together with Viessmann, we were able to complete the project successfully".

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Viessmann

Viessmann is continuously changing from a heating technology manufacturer to a solution provider for entire living spaces. The company develops seamless climate solutions that provide people with the optimum room temperature, hot water, electricity and good air quality in equal measure. In its Integrated Solutions Offering, Viessmann seamlessly combines products and systems on the basis of the right energy sources via platforms and digital services. In addition, there is a wide range of value-added services. Wherever technically possible, Viessmann relies on renewable sources. In all other cases, fossil fuels are used as efficiently as possible. Founded in 1917, the family business attaches particular importance to responsible and long-term action. Sustainability is firmly rooted in the company values and is reflected in the company's purpose statement "We create living spaces for generations to come.". Creating living spaces for generations to come is the responsibility of the 12,000 members of a strong Viessmann family worldwide.

eins energie in sachsen GmbH & Co. KG

"eins" is the main local energy provider in Chemnitz and South Saxony. Based in Chemnitz, the company supplies around 400,000 customers with natural gas, electricity, heating and cooling, as well as water and energy-related services. As a company with strong ties to the region, "eins" is actively involved in youth, sport and cultural projects within its supply area.

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